EWS7928P

New Product Setup for Distribution
& Messaging Guide

Model (SKU): EWS7928P
Product Name: WMS 24-Port Gigabit PoE+ L2 Switch
UPC number: 6-55216-00686-7

MSRP: $1,199

Product Short Description:

The EWS7928P is a Neutron Series Managed Wireless solution 24-Port Gigabit PoE+ Layer 2 Managed Switch with 4 Dual-Speed SFP ports.

Product 25 word Description:

The EWS7928P is a Neutron Series Managed Wireless solution 24-Port Gigabit PoE+ Layer 2 Switch with 4 Dual-Speed SFP ports for managing up to 50 Neutron Series Access Points.

Product 50 word Description:

The EWS7928P is a Neutron Series Managed Wireless solution 24-Port Gigabit PoE+ Layer 2 Managed Switch with 4 SFP ports for fiber uplinks. As part of an **EnGenius Neutron Series** wireless management solution, the EWS7928P through its browser-based interface can discover, configure, manage and monitor up to 50 Neutron Series Access Points.

Product Long Description:

The EnGenius Neutron Series EWS7928P is a Neutron Series Managed Wireless solution 24-Port Gigabit PoE+ Layer 2 Switch with 4 Dual-Speed SFP ports ideal for Wireless Access Points, VoIP (Voice-over-IP) phones, and IP surveillance applications.

As part of an **EnGenius Neutron Series** wireless management solution, the EWS7928P through its browser-based GUI (Graphical User Interface) can discover, configure, manage and monitor up to 50 Neutron Series Wireless Access Points. The controller mode of the Switch provides a suite of wireless management features for IT managers to configure Neutron Series Access Points. Features include clustering Neutron Series Access Points in clusters with identical policies, Access Point IP Auto-Discovery, remote Access Point rebooting for hard-to-reach / previously deployed units, and a host of visual monitoring features including topology and floor plan view modes for the mapping out and tracking of networks. The controller also features a statistics section for record traffic tracking and comparison between units or over-time comparisons.

The interface also lets IT managers apply configuration changes to multiple Access Points or the entire network simultaneously. A dashboard provides instant access to a variety of clients, network information, and events, while a real time map displays Access Point locations and network topology for planning and deployment.

Managing the wired portion of the network is also easy using the same browser-based interface. The Switch supports IEEE 802.1p QoS which automatically classifies and prioritizes compliant device traffic to ensure that time sensitive data such as VoIP is forwarded without delay.

It offers 24 Gigabit ports with IEEE 802.3at/af (PoE+) support and 4 SFP slots for fiber uplinks. The 24 Gigabit ports provide seamless connectivity for devices and applications that require high speed network access and reduce bottlenecks that can interrupt communication. The Switch delivers up to 30 watts per port over connected Ethernet cables to power essential devices like Wireless Access Points, IP Cameras, and VoIP (Voice-over-IP) Phone systems, making the EWS7928P a great choice for businesses that need to connect to a wide variety of devices for their company.

The EWS7928P's 4 SFP slots accept fiber transceivers for extending the wired network beyond the limitation of Ethernet cabling. This is especially useful for schools with satellite classrooms, or for hotels and resorts, or other businesses with multiple building properties.

The EWS7928P includes bracketing hardware for mounting into a switch rack.

Bullet Points / Differentiators:

- Simple to use, manage, and deploy
- A full-featured Layer 2 PoE+ Switch with Wireless Management Capability
- Centrally manage and monitor up to 50 EnGenius Neutron Series Access Points
- Automatic Neutron Series Access Discovery and Provisioning
- Wired and Wireless Network Points Management and Monitoring
- Wireless Access Points Group
- IEEE 802.3at/af PoE on its 24 Gigabit Ports with a total PoE budget of 185 Watts
- Includes 4 Dual-Speed SFP (fiber) uplink ports for integrating with an existing network or cascading to other switches
- Up to 56 Gbps non-blocking switching capacity
- Easy to manage and configure via a Web-based Graphical User Interface (GUI)
- Cable Diagnostics
- Command Line Interface (CLI)

Key Features / Benefits

- **Simple to Use and Manage**
  Centralized management, quick setup through a web-based user interface.
- **Simple to deploy**
  The EnGenius Wireless Management Switch integrates seamlessly with existing Switches, firewalls and other network infrastructure.

- **Scalability**
  Supports management of up to 50 APs.
- **EnGenius Neutron Series Access Point Automatic Discovery**
  - Discovers EnGenius Neutron Series Access Points everywhere on the LAN.
- **Wireless Management Features**
  - The EWS7928P features wireless management components for customized networks.
- **AP Auto IP-Assignment**
  - Assign an IP address range for wireless clients connecting to the network.
- **Neutron Series Access Point Groups**
  - Initially all Neutron Series Access Points belong to the same Access Point group.
- **Advanced Wireless Settings for Neutron Series Access Points**
  - Supports Band Steering, Fast Handover and Guest Network features.
- **Cluster Management**
  - Setup and assign Access Points in clusters within your network to manage the group of Access Points as a single wireless network instead of a series of separate devices.
- **Remote AP Rebooting**
  - Reboot an Access Point remotely, making management of Access Points in hard to reach places easy and hassle free.
- **Visual Monitoring**
  - Keep track of, map out, and plan the placement of Access Points and Switches in your network. You can see a visual view of the topology of a cluster in the network as well as search for Access Points via their IP or MAC address.
- **4 Dual-Speed SFP Ports**
  - Includes 4 SFP ports to support transceivers for fiber cabling for connectivity to offices, buildings, or other parts of the network that exceed the distance capability of regular Ethernet.
- **PoE+ IEEE 802.3at/af Support**
  - Enables PoE devices like Access Points, Client Bridges, IP Cameras, VoIP telephones and others to be powered directly from the Switch over an Ethernet cable.
  - Up to 30 Watts per port with a total PoE budget of 185 Watts.
- **Full-Featured Layer 2 Manageability**
  - The full-featured, managed Layer 2 Switch includes: VLAN, QoS, IGMP/MLD Snooping, STP/RSTP/MSTP, Link Aggregation Control Protocol (LACP), SNMP v1/v2c/v3, and more.

TECHNICAL SPECIFICATIONS
Standard

Switching Capacity: 56 Gbps
Forwarding Mode: Store and Forward
SDRAM: 256 MB
Flash Memory: 32 Mbytes

Network Ports

24 10/100/1000 Mbps Ports
4 100/100 Mbps SFP Ports
1 RJ45 Console Port

PoE+ Capability

All Gigabit Ethernet ports support IEEE 802.3at/af
All Gigabit Ethernet ports can output up to 30 Watts
Power budget: 185 Watts

LED Indicators

Device:

Power LED
Fault LED
PoE Max LED
LAN Mode LED
PoE Mode LED

Copper Ports:

LAN/PoE Mode LED
Link/Act LED

SFP Ports:

Link/Act LED

Environment & Mechanical

Temperature Range

Operating: 32 to 104°F/0 to 40°C
Storage: -40 to 158°F/-40 to 70 °C

Humidity (Non-Condensing)

5% - 95%

Wireless Management Features

AP Supported (50 APs)
Access Point Auto Discovery and Provisioning
Access Point Auto IP-Assignment
Access Point Cluster Management
Remote Access Point Rebooting
Access Point Device Name Editing
Access Point Radio Settings
Band Steering
Traffic Shaping
Fast Handover
Fast Roaming
Access Point Client Limiting
Wireless Security (WEP, WPA/WPA2 Enterprise, WPA/WPA2 PSK)
VLANs for Access Point- Multiple SSIDs
Guest Network

Access Point Status Monitoring
Wireless Client Monitoring
Wireless Traffic & Usage Statistics
Visual Topology View
Floor Plan View
Map View
Secure Control Messaging
SSL Certificate
Local MAC Address Database
Remote MAC Address Database (RADIUS)
Unified Configuration Import / Export
Intelligent Diagnostic
Bulk Firmware Upgrade
Unified Configuration Import/Export
Bulk Firmware Upgrade Capability
Intelligent Diagnostics

Layer 2 Features

802.3ad compatible Link Aggregation
802.1D Spanning Tree (STP)
802.1w Rapid Spanning Tree (RSTP)
802.1s Multiple Spanning Tree (MSTP)
IGMP Snooping v1/v2/v3
MLD Snooping
IGMP Fast Leave
Port Trunking
Port Mirroring: One to one and many to one
VLAN Group
Voice VLAN
Queue
 CoS based on 802.1p priority
 CoS based on physical port
 CoS based on TOS
 CoS based on DSCP
BootP/DHCP Client
Firmware Burn-Proof
802.1X Port-based Access Control
802.1X Guest VLAN
Port Security
Port Isolation
Storm Control
Attack Prevention
Access Control List (ACL)
Telnet Server
TFTP Client
BootP/DHCP Client

Web-based support
SNMP v1 support
SNMP v2c support
SNMP v3 support
TFTP upgrade
Command Line Interface (CLI)
SNTP
RMONv1
SYSLOG
Cable Diagnostics
MIB Support
RFC1213
RFC1493
RFC1757
RFC2674

Device, Packaging & Master Carton Dimensions & Weights:
EWS7928P Device

Weight:	7.82 lbs
Width:	17.32” (440 mm)
Length:	10.23” (260 mm)
Height:	1.73” (44 mm)

Packaging

Weight:	10.13 lbs
Width:	20.95” (532mm)
Length:	13.63” (346mm)
Height:	3.97” (101mm)

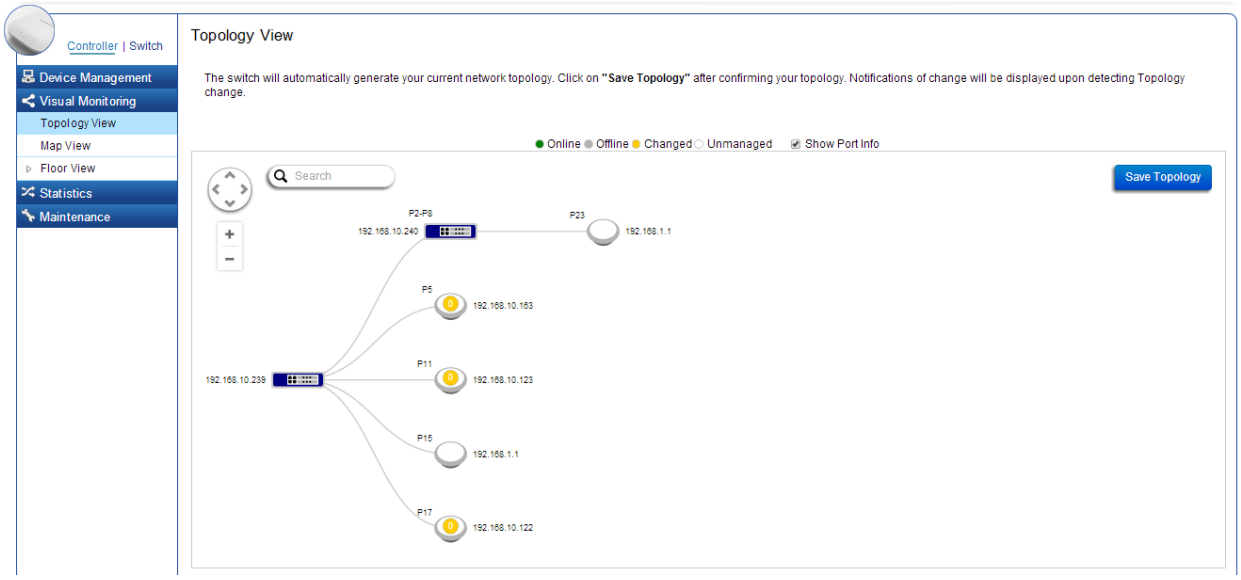
Master Carton

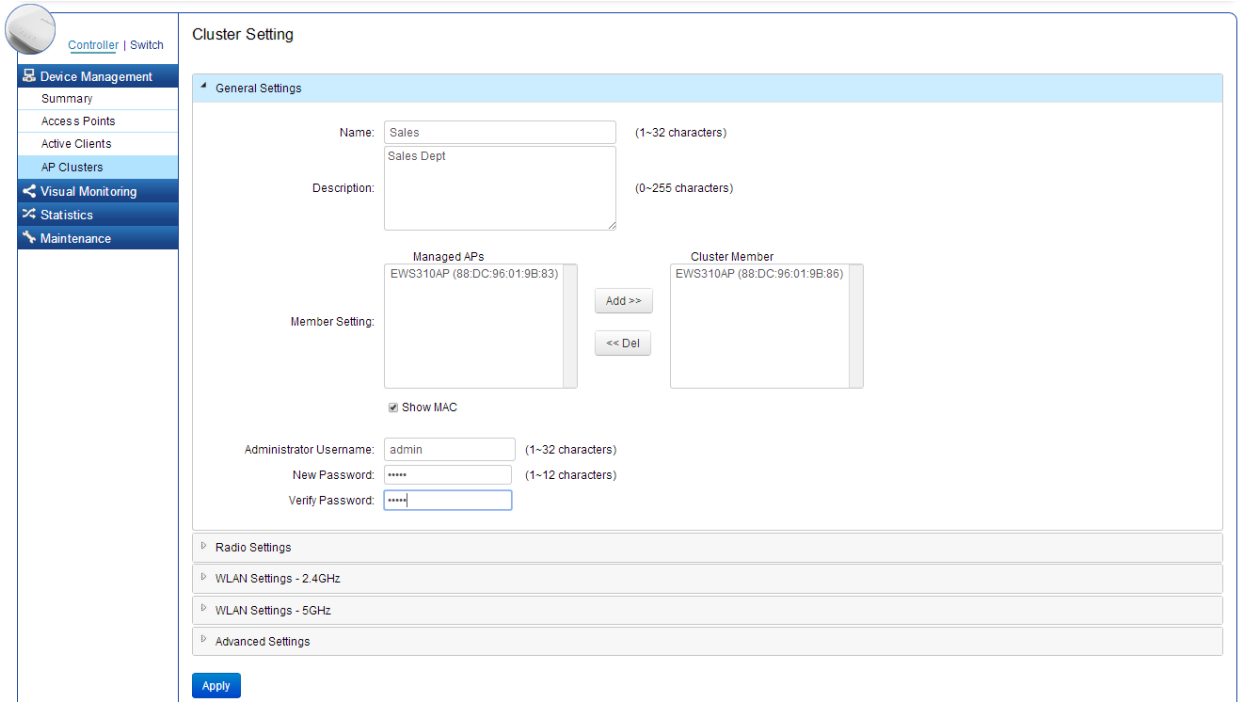
Weight:	32.24 lbs
Width:	13.63” (346mm)
Length:	13.63” (346mm)
Height:	13.63” (346mm

No. of product boxes per master carton: 3 units
Warranty: 1 Year

Product Image:

User Interface:





Maximum data rates are based on IEEE 802.3ab standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network. Features and specifications subject to change without notice. Trademarks and registered trademarks are the property of their respective owners. For United States of America: Copyright ©2014 EnGenius Technologies, Inc. All rights reserved. Compliant with FCC - This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.